Amendments to the Claims

Please cancel claims 1, 8,   Please amend claims 2, 3, 9, 10,   . The currently pending claims after amendment are listed below.

1. (Cancelled)

2. (Currently Amended)   The method of ~~claim 1~~ claim 7, further comprising:
   inverting said flags when a predetermined condition is no longer met.

3. (Currently Amended)   ~~A~~ The method ~~for processing a multidimensional array object comprising array objects, said method comprising the steps of:~~
   ~~managing flags for said multidimensional array object, said flags representing whether it is possible to optimize a process for elements of said multidimensional array object;~~
   ~~inverting said flags when a predetermined condition is no longer met; and~~
   ~~executing a machine code corresponding to a state of said flags;~~
   of claim 2, wherein said predetermined condition is whether a base array of a multidimensional array object is allocated to consecutive memory areas.

4. (Original)   The method of claim 2, wherein said machine code is either a machine code optimized or a machine code not optimized according to said predetermined condition.

5. (Original)   The method of claim 2, further comprising:
   determining whether said predetermined condition is met when writing to said multidimensional array object.

Docket No.:   JA998-218
Serial No.:   09/490,582

1   6.   (Original)   The method of claim 2 wherein, further comprising:

2   if said predetermined condition is met when generating said multidimensional array object,

3   setting said flags to a generated multidimensional array object.

1   7.   (Previously Presented)   A method for processing a multidimensional array object

2   comprising array objects, said method comprising the steps of:

3   managing flags for said multidimensional array object, said flags representing whether it is

4   possible to optimize a process for elements of said multidimensional array object;

5   executing a machine code corresponding to a state of said flags; and

6   if there is possibility of multi-thread processing of said multidimensional array object,

7   generating a machine code for storing on a stack a dummy reference to said multidimensional

8   array during execution of an optimization code.

        8.   (Cancelled)

1   9.   (Currently Amended)   The storage medium of ~~claim 8~~ <u>claim 14</u>, further comprising:

2   inverting said flags when a predetermined condition is no longer met.

Docket No.:   JA998-218
Serial No.:   09/490,582

1   10.   (Currently Amended)   ~~A~~ <u>The</u> storage medium ~~storing a program for a multidimensional~~

2   ~~array object comprising array objects, wherein said program, when read and executed by a~~

3   ~~computer, comprises steps of:~~

4   ~~managing flags for said multidimensional array object, said flags representing that it is~~

5   ~~possible to optimize a process for elements of said multidimensional array object;~~

6   ~~inverting said flags when a predetermined condition is no longer met; and~~

7   ~~executing a machine code corresponding to a state of said flags;~~

8   <u>of claim 9,</u> wherein said predetermined condition is whether a base array of a multidimensional

9   array object is allocated to consecutive memory areas.

1   11.   (Original)   The storage medium of claim 9, wherein said machine code is either a machine

2   code optimized or a machine code not optimized according to said predetermined condition.

1   12.   (Original)   The storage medium of claim 9, further comprising:

2   determining whether said predetermined condition is met when writing to said

3   multidimensional array object.

1   13.   (Original)   The storage medium of claim 9, further comprising:

2   if said predetermined condition is met when generating said multidimensional array object,

3   setting said flags to a generated multidimensional array object.

Docket No.:   JA998-218
Serial No.:   09/490,582

1   14.   (Previously Presented) A storage medium storing a program for a multidimensional array

2   object comprising array objects, wherein said program, when read and executed by a computer,

3   comprises steps of:

4   managing flags for said multidimensional array object, said flags representing that it is

5   possible to optimize a process for elements of said multidimensional array object;

6   executing a machine code corresponding to a state of said flags; and

7   if there is possibility of multi-thread processing of said multidimensional array object,

8   generating a machine code for storing on a stack a dummy reference to said multidimensional

9   array during execution of an optimization code.

15.   (Cancelled)

1   16.   (Currently Amended) The computer of ~~claim 15~~ claim 21, wherein said program further

2   comprises:

3   inverting said flags when a predetermined condition is no longer met.

4   17.   (Currently Amended) ~~A~~ The computer ~~for processing a multidimensional array object~~

5   ~~comprising array objects, said computer comprising:~~

6   ~~a central processing unit; and~~

7   ~~a program, when read and executed by said central processing unit, comprises steps of:~~

8   ~~managing flags for said multidimensional array object, said flags representing that it is~~

9   ~~possible to optimize a process for elements of said multidimensional array object;~~

10   ~~inverting said flags when a predetermined condition is no longer met; and~~

11   ~~executing a machine code corresponding to a state of said flags;~~

12   of claim 16, wherein said predetermined condition is whether a base array of a multidimensional

13   array object is allocated to consecutive memory areas.

Docket No.:   JA998-218
Serial No.:   09/490,582

1   18.   (Original)   The computer of claim 16, wherein said machine code is either a machine code

2   optimized or a machine code not optimized according to said predetermined condition.

1   19.   (Original)   The computer of claim 16, wherein said program further comprises:

2   determining whether said predetermined condition is met when writing to said

3   multidimensional array object.

1   20.   (Original)   The computer of claim 16, wherein said program further comprises:

2   if said predetermined condition is met when generating said multidimensional array object,

3   setting said flags to a generated multidimensional array object.

1   21.   (Previously Presented)   A computer for processing a multidimensional array object

2   comprising array objects, said computer comprising:

3   a central processing unit; and

4   a program, when read and executed by said central processing unit, comprises steps of:

5   managing flags for said multidimensional array object, said flags representing that it is

6   possible to optimize a process for elements of said multidimensional array object,

7   executing a machine code corresponding to a state of said flags; and

8   if there is possibility of multi-thread processing of said multidimensional array object,

9   generating a machine code for storing on a stack a dummy reference to said multidimensional

10 array during execution of an optimization code.

Docket No.:   JA998-218
Serial No.:   09/490,582